

**REMARKS**

Enclosed herewith in full compliance with 37 C.F.R. §§1.821-1.825 is a Substitute Sequence Listing to be inserted into the specification as indicated above. The Substitute Sequence Listing in no way introduces new matter into the specification. Also submitted herewith in full compliance with 37 C.F.R. §§1.821-1.825 is a disk copy of the Substitute Sequence Listing. The disk copy of the Sequence Listing, file "2005-05-31 1254-0259PUS1.ST25.txt", is identical to the paper copy, except that it lacks formatting.

The specification is amended to reference each nucleotide and amino acid sequence from the figures with a corresponding SEQ ID NO. The Sequence Listing is amended to include SEQ ID NOS: 35-39 which are shown in figures 1, 2, 18, and 19. The Sequence Listing is further amended to correct matters of form and to properly identify the present application by filing date and serial number. No new matter is introduced by these amendments.

Application No. 10/509,121

IN THE SEQUENCE LISTING

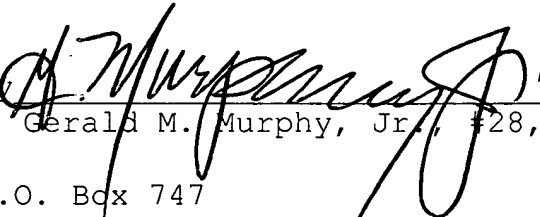
Please replace the Sequence Listing of record with the Substitute Sequence Listing enclosed herewith.

If necessary, the Commissioner is hereby authorized in this, concurrent, and future replies, to charge payment or credit any overpayment to Deposit Account No. 02-2448 for any additional fees required under 37 C.F.R. § 1.16 or under 37 C.F.R. § 1.17; particularly, extension of time fees.

**JUN 6 2005**

Respectfully submitted,

BIRCH, STEWART, KOLASCH & BIRCH, LLP

By   
Gerald M. Murphy, Jr., #28,977

GMM/RLR  
1254-0259PUS1

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Attachments:      Disk Copy of Sequence Listing  
                     Paper Copy of Sequence Listing  
                     Copy of Notice to Comply